

Project Title:	Statistical Methods for Complex Environmental Health Data
PI:	Peng, Roger
Institution:	Johns Hopkins University
Grant Number:	R01ES019560

These search results have not been confirmed by NIEHS and are therefore, not official. They are to be used only for general information and to inform the public and grantees on the breadth of research funded by NIEHS.

Viewing 70 publications

Print version (PDF)

(http://www.niehs.nih.gov/portfolio/index.cfm/portfolio/grantpubdetail/grant_number/R01ES019560/format/word)

Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
"Threshold findings" in an ecological study.	Correia, Andrew W; Wang, Yun; Dominici, Francesca; Pope 3rd, C Arden; Dockery, Douglas W; Ezzati, Majid	Epidemiology (2013 Jul)	24 / 628	PubMed Citation
A Bayesian model averaging approach for estimating the relative risk of mortality associated with he ...	Bobb, Jennifer F; Dominici, Francesca; Peng, Roger D	Biometrics (2011 Dec)	67 / 1605-16	PubMed Citation
A Bayesian Multivariate Receptor Model for Estimating Source Contributions to Particulate Matter Pol ...	Hackstadt, Amber J; Peng, Roger D	Environmetrics (2014 Nov 1)	25 / 513-527	PubMed Citation
A meta-analysis and multisite time-series analysis of the differential toxicity of major fine partic ...	Levy, Jonathan I; Diez, David; Dou, Yiping; Barr, Christopher D; Dominici, Francesca	Am J Epidemiol (2012 Jun 1)	175 / 1091-9	PubMed Citation
A model-based approach for imputing censored data in source apportionment studies.	Krall, Jenna R; Simpson, Charles H; Peng, Roger D	Environ Ecol Stat (2015 Dec 01)	22 / 779-800	PubMed Citation
A national case-crossover analysis of the short-term effect of PM2.5 on hospitalizations and mortali ...	Zanobetti, Antonella; Dominici, Francesca; Wang, Yun; Schwartz, Joel D	Environ Health (2014)	13 / 38	PubMed Citation
Accounting for uncertainty in confounder and effect modifier selection when estimating average causa ...	Wang, Chi; Dominici, Francesca; Parmigiani, Giovanni; Zigler, Corwin Matthew	Biometrics (2015 Sep)	71 / 654-65	PubMed Citation
Acute effects of ambient ozone on mortality in Europe and North America: results from the APHENA stu ...	Peng, Roger D; Samoli, Evangelia; Pham, Luu; Dominici, Francesca; Touloumi, Giota; Ramsay, Tim; Burnett, Richard T; Krewski, Daniel; Le Tertre, Alain; Cohen, Aaron; Atkinson, Richard W; Anderson, H Ross; Katsouyanni, Klea; Samet, Jonathan M	Air Qual Atmos Health (2013 Jun 1)	6 / 445-453	PubMed Citation

Airborne PM2.5 chemical components and low birth weight in the northeastern and mid-Atlantic regions ...	Ebisu, Keita; Bell, Michelle L	Environ Health Perspect (2012 Dec)	120 / 1746-52	PubMed Citat
Ambient Coarse Particulate Matter and Hospital Admissions in the Medicare Cohort Air Pollution Study ...	Powell, Helen; Krall, Jenna R; Wang, Yun; Bell, Michelle L; Peng, Roger D	Environ Health Perspect (2015 Nov)	123 / 1152-8	PubMed Citat
Ambient PM2.5 and Risk of Hospital Admissions: Do Risks Differ for Men and Women?	Bell, Michelle L; Son, Ji-Young; Peng, Roger D; Wang, Yun; Dominici, Francesca	Epidemiology (2015 Jul)	26 / 575-9	PubMed Citat
Assessment of heterogeneity of metal composition of fine particulate matter collected from eight U.S ...	Han, Inkyu; Mihalic, Jana N; Ramos-Bonilla, Juan P; Rule, Ana M; Polyak, Lisa M; Peng, Roger D; Geyh, Alison S; Breysse, Patrick N	J Air Waste Manag Assoc (2012 Jul)	62 / 773-82	PubMed Citat
Association between greenness, urbanicity, and birth weight.	Ebisu, Keita; Holford, Theodore R; Bell, Michelle L	Sci Total Environ (2016 Jan 15)	542 / 750-6	PubMed Citat
Associations between long-term exposure to chemical constituents of fine particulate matter (PM2.5) ...	Chung, Yeonseung; Dominici, Francesca; Wang, Yun; Coull, Brent A; Bell, Michelle L	Environ Health Perspect (2015 May)	123 / 467-74	PubMed Citat
Associations of PM constituents and sources with hospital admissions: analysis of four counties i ...	Bell, Michelle L; Ebisu, Keita; Leaderer, Brian P; Gent, Janneane F; Lee, Hyung Joo; Kourtrakis, Petros; Wang, Yun; Dominici, Francesca; Peng, Roger D	Environ Health Perspect (2014 Feb)	122 / 138-44	PubMed Citat
Being overweight increases susceptibility to indoor pollutants among urban children with asthma.	Lu, Kim D; Breysse, Patrick N; Diette, Gregory B; Curtin-Brosnan, Jean; Aloe, Charles; Williams, D'Ann L; Peng, Roger D; McCormack, Meredith C; Matsui, Elizabeth C	J Allergy Clin Immunol (2013 Apr)	131 / 1017-23, 1023.e1-3	PubMed Citat
Cause-specific risk of hospital admission related to extreme heat in older adults.	Bobb, Jennifer F; Obermeyer, Ziad; Wang, Yun; Dominici, Francesca	JAMA (2014 Dec 24-31)	312 / 2659-67	PubMed Citat
Characterization of fine particulate matter and associations between particulate chemical constituen ...	Son, Ji-Young; Lee, Jong-Tae; Kim, Ki-Hyun; Jung, Kweon; Bell, Michelle L	Environ Health Perspect (2012 Jun)	120 / 872-8	PubMed Citat

Chemical Composition of Fine Particulate Matter and Life Expectancy: In 95 US Counties Between 2002 ...	Dominici, Francesca; Wang, Yun; Correia, Andrew W; Ezzati, Majid; Pope 3rd, C Arden; Dockery, Douglas W	Epidemiology (2015 Jul)	26 / 556-64	PubMed Citat
Community-level spatial heterogeneity of chemical constituent levels of fine particulates and implic ...	Bell, Michelle L; Ebisu, Keita; Peng, Roger D	J Expo Sci Environ Epidemiol (2011 Jul-Aug)	21 / 372-84	PubMed Citat
Comparing exposure metrics for the effects of fine particulate matter on emergency hospital admissions ...	Mannshardt, Elizabeth; Sucic, Katarina; Jiao, Wan; Dominici, Francesca; Frey, H Christopher; Reich, Brian; Fuentes, Montserrat	J Expo Sci Environ Epidemiol (2013 Nov-Dec)	23 / 627-36	PubMed Citat
Comparison of exposure estimation methods for air pollutants: ambient monitoring data and regional a ...	Bravo, Mercedes A; Fuentes, Montserrat; Zhang, Yang; Burr, Michael J; Bell, Michelle L	Environ Res (2012 Jul)	116 / 1-10	PubMed Citat
Current Methods and Challenges for Epidemiological Studies of the Associations Between Chemical Cons ...	Krall, Jenna R; Chang, Howard H; Sarnat, Stefanie Ebelt; Peng, Roger D; Waller, Lance A	Curr Environ Health Rep (2015 Dec)	2 / 388-98	PubMed Citat
Does exposure prediction bias health-effect estimation?: The relationship between confounding adjust ...	Cefalu, Matthew; Dominici, Francesca	Epidemiology (2014 Jul)	25 / 583-90	PubMed Citat
Effect of air pollution control on life expectancy in the United States: an analysis of 545 U.S. cou ...	Correia, Andrew W; Pope 3rd, C Arden; Dockery, Douglas W; Wang, Yun; Ezzati, Majid; Dominici, Francesca	Epidemiology (2013 Jan)	24 / 23-31	PubMed Citat
Environmental inequality in exposures to airborne particulate matter components in the United States ...	Bell, Michelle L; Ebisu, Keita	Environ Health Perspect (2012 Dec)	120 / 1699-704	PubMed Citat
Estimating the acute health effects of coarse particulate matter accounting for exposure measurement ...	Chang, Howard H; Peng, Roger D; Dominici, Francesca	Biostatistics (2011 Oct)	12 / 637-52	PubMed Citat
Estimating the health benefit of reducing indoor air pollution in a randomized environmental interve ...	Peng, Roger D; Butz, Arlene M; Hackstadt, Amber J; Williams, D'Ann L; Diette, Gregory B; Breysse, Patrick N; Matsui, Elizabeth C	J R Stat Soc Ser A Stat Soc (2015 Feb)	178 / 425-443	PubMed Citat
Evidence on vulnerability and susceptibility to health risks associated with short-term exposure to ...	Bell, Michelle L; Zanobetti, Antonella; Dominici, Francesca	Am J Epidemiol (2013 Sep 15)	178 / 865-76	PubMed Citat

Exposure to coarse particulate matter during gestation and birth weight in the U.S.	Ebisu, Keita; Berman, Jesse D; Bell, Michelle L	Environ Int (2016 Sep)	94 / 519-24	PubMed Citat
Extending distributed lag models to higher degrees.	Heaton, Matthew J; Peng, Roger D	Biostatistics (2014 Apr)	15 / 398-412	PubMed Citat
Flexible Distributed Lag Models using Random Functions with Application to Estimating Mortality Disp ...	Heaton, Matthew J; Peng, Roger D	J Agric Biol Environ Stat (2012 Sep)	17 / 313-331	PubMed Citat
Heat stroke admissions during heat waves in 1,916 US counties for the period from 1999 to 2010 and t ...	Wang, Yan; Bobb, Jennifer F; Papi, Bianca; Wang, Yun; Kosheleva, Anna; Di, Qian; Schwartz, Joel D; Dominici, Francesca	Environ Health (2016 Aug 08)	15 / 83	PubMed Citat
Heat-related emergency hospitalizations for respiratory diseases in the Medicare population.	Anderson, G Brooke; Dominici, Francesca; Wang, Yun; McCormack, Meredith C; Bell, Michelle L; Peng, Roger D	Am J Respir Crit Care Med (2013 May 15)	187 / 1098-103	PubMed Citat
Heat-related mortality and adaptation to heat in the United States.	Bobb, Jennifer F; Peng, Roger D; Bell, Michelle L; Dominici, Francesca	Environ Health Perspect (2014 Aug)	122 / 811-6	PubMed Citat
In-home air pollution is linked to respiratory morbidity in former smokers with chronic obstructive ...	Hansel, Nadia N; McCormack, Meredith C; Belli, Andrew J; Matsui, Elizabeth C; Peng, Roger D; Aloe, Charles; Paulin, Laura; Williams, D'Ann L; Diette, Gregory B; Breysse, Patrick N	Am J Respir Crit Care Med (2013 May 15)	187 / 1085-90	PubMed Citat
Indoor pollutant exposures modify the effect of airborne endotoxin on asthma in urban children.	Matsui, Elizabeth C; Hansel, Nadia N; Aloe, Charles; Schiltz, Allison M; Peng, Roger D; Rabinovitch, Nathan; Ong, Mary Jane; Williams, D'Ann L; Breysse, Patrick N; Diette, Gregory B; Liu, Andrew H	Am J Respir Crit Care Med (2013 Nov 15)	188 / 1210-5	PubMed Citat
Inference for environmental intervention studies using principal stratification.	Hackstadt, Amber J; Matsui, Elizabeth C; Williams, D'Ann L; Diette, Gregory B; Breysse, Patrick N; Butz, Arlene M; Peng, Roger D	Stat Med (2014 Dec 10)	33 / 4919-33	PubMed Citat
Is the relation between ozone and mortality confounded by chemical components of particulate matter? ...	Anderson, G Brooke; Krall, Jenna R; Peng, Roger D; Bell, Michelle L	Am J Epidemiol (2012 Oct 15)	176 / 726-32	PubMed Citat

Long-term PM2.5 Exposure and Neurological Hospital Admissions in the Northeastern United States.	Kioumourtzoglou, Marianthi-Anna; Schwartz, Joel D; Weisskopf, Marc G; Melly, Steven J; Wang, Yun; Dominici, Francesca; Zanobetti, Antonella	Environ Health Perspect (2016 Jan)	124 / 23-9	PubMed Citat
Measurement error in air pollution epidemiology: Guidance for uncertain times.	Peng, Roger D	Environmetrics (2013 Dec)	24 / 529-530	PubMed Citat
Meta-Analytic Approaches for Multistressor Dose-Response Function Development: Strengths, Limitation ...	Levy, Jonathan I; Fabian, M Patricia; Peters, Junenette L	Risk Anal (2015 Jun)	35 / 1040-9	PubMed Citat
Methods to calculate the heat index as an exposure metric in environmental health research.	Anderson, G Brooke; Bell, Michelle L; Peng, Roger D	Environ Health Perspect (2013 Oct)	121 / 1111-9	PubMed Citat
Neighborhood poverty, urban residence, race/ethnicity, and asthma: Rethinking the inner-city asthma ...	Keet, Corinne A; McCormack, Meredith C; Pollack, Craig E; Peng, Roger D; McGowan, Emily; Matsui, Elizabeth C	J Allergy Clin Immunol (2015 Mar)	135 / 655-62	PubMed Citat
Obesity as a susceptibility factor to indoor particulate matter health effects in COPD.	McCormack, Meredith C; Belli, Andrew J; Kaji, Deepak A; Matsui, Elizabeth C; Brigham, Emily P; Peng, Roger D; Sellers, Cortlandt; Williams, D'Ann L; Diette, Gregory B; Breysse, Patrick N; Hansel, Nadia N	Eur Respir J (2015 May)	45 / 1248-57	PubMed Citat
Personalized medicine: Keep a way open for tailored treatments.	Leek, Jeffrey T; Peng, Roger D; Anderson, R Reeves	Nature (2012 Apr 19)	484 / 318	PubMed Citat
PM2.5 and Mortality in 207 US Cities: Modification by Temperature and City Characteristics.	Kioumourtzoglou, Marianthi-Anna; Schwartz, Joel; James, Peter; Dominici, Francesca; Zanobetti, Antonella	Epidemiology (2016 Mar)	27 / 221-7	PubMed Citat
PM2.5 and survival among older adults: effect modification by particulate composition.	Kioumourtzoglou, Marianthi-Anna; Austin, Elena; Koutrakis, Petros; Dominici, Francesca; Schwartz, Joel; Zanobetti, Antonella	Epidemiology (2015 May)	26 / 321-7	PubMed Citat
Point: clarifying policy evidence with potential-outcomes thinking--beyond exposure-response estimat ...	Zigler, Corwin Matthew; Dominici, Francesca	Am J Epidemiol (2014 Dec 15)	180 / 1133-40	PubMed Citat

Re: "is the relation between ozone and mortality confounded by chemical components of particulate ma ...	Sax, Sonja; Goodman, Julie E	Am J Epidemiol (2013 Jun 15)	177 / 1460	PubMed Citat
Reduced hierarchical models with application to estimating health effects of simultaneous exposure t ...	Bobb, Jennifer F; Dominici, Francesca; Peng, Roger D	J R Stat Soc Ser C Appl Stat (2013 May)	62 /	PubMed Citat
Relationship between birth weight and exposure to airborne fine particulate potassium and titanium d ...	Bell, Michelle L; Belanger, Kathleen; Ebisu, Keita; Gent, Janneane F; Leaderer, Brian P	Environ Res (2012 Aug)	117 / 83-9	PubMed Citat
Reproducible research in computational science.	Peng, Roger D	Science (2011 Dec 2)	334 / 1226-7	PubMed Citat
Science and regulation. Particulate matter matters.	Dominici, Francesca; Greenstone, Michael; Sunstein, Cass R	Science (2014 Apr 18)	344 / 257-9	PubMed Citat
Seasonal variation in the acute effect of particulate air pollution on mortality in the China Air Po ...	Chen, Renjie; Peng, Roger D; Meng, Xia; Zhou, Zhijun; Chen, Bingheng; Kan, Haidong	Sci Total Environ (2013 Apr 15)	450-451 / 259-65	PubMed Citat
Short-term effects of air pollution on hospital admissions in Korea.	Son, Ji-Young; Lee, Jong-Tae; Park, Yoon Hyeong; Bell, Michelle L	Epidemiology (2013 Jul)	24 / 545-54	PubMed Citat
Short-term exposure to particulate matter constituents and mortality in a national study of U.S. urb ...	Krall, Jenna R; Anderson, G Brooke; Dominici, Francesca; Bell, Michelle L; Peng, Roger D	Environ Health Perspect (2013 Oct)	121 / 1148-53	PubMed Citat
Spatial variable selection methods for investigating acute health effects of fine particulate matter ...	Boehm Vock, Laura F; Reich, Brian J; Fuentes, Montserrat; Dominici, Francesca	Biometrics (2015 Mar)	71 / 167-77	PubMed Citat
Staphylococcus aureus colonization is associated with wheeze and asthma among US children and young ...	Davis, Meghan F; Peng, Roger D; McCormack, Meredith C; Matsui, Elizabeth C	J Allergy Clin Immunol (2015 Mar)	135 / 811-3.e5	PubMed Citat
Statistical approaches for identifying air pollutant mixtures associated with aircraft departures at ...	Diez, David M; Dominici, Francesca; Zarubiak, Darcy; Levy, Jonathan I	Environ Sci Technol (2012 Aug 7)	46 / 8229-35	PubMed Citat
Survey of county-level heat preparedness and response to the 2011 summer heat in 30 U.S. States.	White-Newsome, Jalonne L; Ekwurzel, Brenda; Baer-Schultz, Mia; Ebi, Kristie L; O'Neill, Marie S; Anderson, G Brooke	Environ Health Perspect (2014 Jun)	122 / 573-9	PubMed Citat
Temperature, ozone, and mortality in urban and non-urban counties in the northeastern United States.	Madrigano, Jaime; Jack, Darby; Anderson, G Brooke; Bell, Michelle L; Kinney, Patrick L	Environ Health (2015)	14 / 3	PubMed Citat

The Association between Airborne PM2.5 Chemical Constituents and Birth Weight-Implication of Buffer ...	Ebisu, Keita; Belanger, Kathleen; Bell, Michelle L	Environ Res Lett 9 / (2014 Aug 15)	PubMed Citat
The authors reply.	Anderson, G Brooke; Krall, Jenna R; Peng, Roger D; Bell, Michelle L	Am J Epidemiol 177 / 1461-2 (2013 Jun 15)	PubMed Citat
The effect of primary organic particles on emergency hospital admissions among the elderly in 3 US c ...	Kioumourtzoglou, Mariamthi-Anna; Zanobetti, Antonella; Schwartz, Joel D; Coull, Brent A; Dominici, Francesca; Suh, Helen H	Environ Health 12 / 68 (2013)	PubMed Citat
The impact of source contribution uncertainty on the effects of source-specific PM2.5 on hospital ad ...	Kioumourtzoglou, Mariamthi-Anna; Coull, Brent A; Dominici, Francesca; Koutrakis, Petros; Schwartz, Joel; Suh, Helen	J Expo Sci Environ Epidemiol (2014 Jul) 24 / 365-71	PubMed Citat
Toward a quantitative estimate of future heat wave mortality under global climate change.	Peng, Roger D; Bobb, Jennifer F; Tebaldi, Claudia; McDaniel, Larry; Bell, Michelle L; Dominici, Francesca	Environ Health Perspect (2011 May) 119 / 701-6	PubMed Citat
Urban vegetation and heat-related mortality in Seoul, Korea.	Son, Ji-Young; Lane, Kevin J; Lee, Jong-Tae; Bell, Michelle L	Environ Res 151 / (2016 Nov) 728-733	PubMed Citat
Who is more affected by ozone pollution? A systematic review and meta-analysis.	Bell, Michelle L; Zanobetti, Antonella; Dominici, Francesca	Am J Epidemiol 180 / 15-28 (2014 Jul 1)	PubMed Citat
Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Countie ...	Liu, Jia Coco; Wilson, Ander; Mickley, Loretta J; Dominici, Francesca; Ebisu, Keita; Wang, Yun; Sulprizio, Melissa P; Peng, Roger D; Yue, Xu; Son, Ji-Young; Anderson, G Brooke; Bell, Michelle L	Epidemiology 28 / 77-85 (2017 Jan)	PubMed Citat